



This woman stands
five feet nine
and one half inches,
weighs 130 pounds,
and she is all powerful grace.
Her specialty is
ascent, backwards.
See inside.

STAR TEAM

Polish astronomer Dr. Jan Smolinski is back at UVic to continue a six-year-long collaboration with Dr. John Climenhaga (Physics).

The two of them are researching the stars.

They began their work together when Dr. Smolinski, on a post-doctoral fellowship, first came to UVic in 1969 from the Institute of Astronomy of the Polish Academy of Sciences, Nicholas Copernicus Observatory in Toruń, where he is now a member of the faculty.

Since then they have been collaborating through the mail and were together in Toruń in 1973 for two months during Dr. Climenhaga's last study leave.

Dr. Smolinski arrived here in early May for a three-month study that will use spectragraphic observations of "super giant stars" and carbon stars.

The observations will be taken with the 48-inch telescope at the Dominion Astrophysical Observatory in Saanich. Dr. Smolinski said the observatory has probably the fastest and most efficient spectragraph in the world for star studies. The spectragraph, designed by the observatory's Dr. Harvey Richardson, greatly reduces the length of time for exposures.

When he was here before, Dr. Smolinski took 500 "exceptionally good spectra" and this summer he will be adding to this collection for a more rounded analysis.

Basically, he and Dr. Climenhaga,

together with Dr. K.O. Wright of the observatory, are analyzing blanketing effects and micro-turbulence of super giant stars.

Dr. Smolinski and Dr. Climenhaga with the help of Dr. Bernadette Harris (Physics) and UVic grad student John Holts will also be doing research on the relationship of Carbon 12 to Carbon 13, an important area in the understanding stellar evolution.

Blanketing effects and micro-turbulence mean, in short, the volatile atmosphere of the stars, and through analysis of this atmosphere the internal physics of a star can be reconstructed, that is, its temperature, pressure, density and composition.

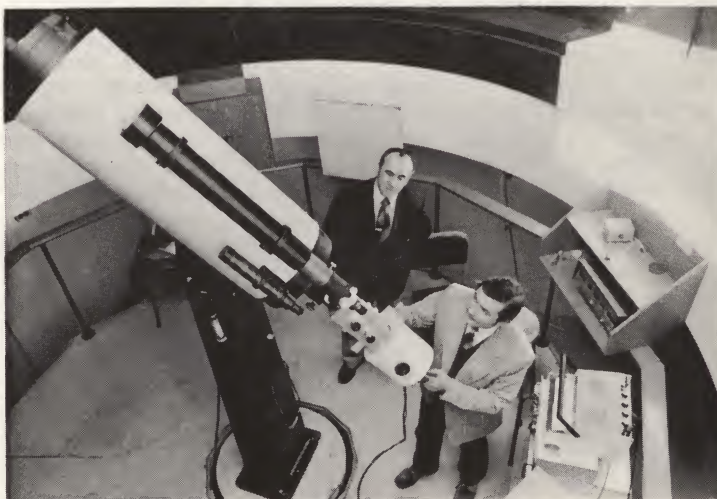
Dr. Smolinski and Dr. Climenhaga are working within this galaxy, which among its billion stars has super giants "here and there".

A super giant is a star with a mass 50 times the sun, which is "an average dwarf star". Dwarfs are by far the most common star, followed in number by giants.

The distance of the stars being observed ranges from three light years to 12,000 years, still only a fraction of the diameter of this galaxy.

And if one is a stargazer, you are usually looking towards the centre of the galaxy. Dr. Climenhaga said this galaxy is shaped like a flattened, spin-wheeling spiral, with this solar system being towards an outer edge, and the Milky Way being towards the centre.

*Dr. Jan Smolinski,
foreground,
with Dr. Climenhaga
at UVic's Elliott
Building telescope.*





High-stepping Debbie Brill displays her famous technique: It begins with a long pensive ("you've got to hear yourself take off"), and SWOSH, a body arching over belly to the

THE LONELINESS OF THE HIGH JUMPER

Debbie Arden Brill is a lean, long-legged woman of 22, who with a crunch of feet can hurl herself to heights of more than six feet.

She is probably the most well-known athlete UVic has had among its students, and right now, as Canada's best, she is the Commonwealth women's high jumping champion, and a gold medal hope for Canada in next year's Olympics in Montreal.

More unusual yet is her detachment from her successes, from the demanding world of track and field competition, and her individualism which came out in her jumping at an early age and which comes out in conversations with her.

"She has one of the best techniques in the world," said Derek Boosey, Canada's national jumping coach who last week was in Victoria for a clinic for local track and field coaches. "And she evolved it herself."

When Debbie first made her appearance in international competition at a meet in Norway in 1968, her technique drew laughter from athletes and spectators. While everyone heretofore jumped belly over the bar, this gangly 15-year-old was going over backwards.

"When I did my first jump everyone started laughing," Debbie recalled. "I was so scared. It just freaked me right out. I was almost crying. I thought I would never jump again."

In those days, with her backward flop, she was jumping around five feet five inches, and at that meet she finished last. Her top jump to date is six feet two, and that won her the Commonwealth title.

For the first time since that bizarre debut, she is going back to Norway next month, and they won't be laughing at her this time. As a matter of fact, everyone jumps backward now.

Later on that same year, an American

by the name of Dick Fosbury won a gold medal at the Olympics in Mexico City by using much the same technique as Debbie, and it became known as the "Fosbury flop".

The two had developed their own innovative styles unbeknownst to each other, but at that time he was a mature athlete and she was just spreading her wings. In 1967, Fosbury came up to a track meet in B.C. and much to the surprise of each they discovered there was another person in the world going over backwards.

"People around B.C. were used to seeing me jumping like that," Debbie said. "And all of a sudden there was this other guy jumping like that. It was funny the day we met, and I saw him jumping and he saw me jumping, and he probably said the same thing I did: 'hey, there's another one jumping like me'."

From the beginning she was discouraged from doing the flop. "Everyone said you've got to change, and at first they (international track officials) tried to make it illegal."

"It is just unfortunate," said Mr. Boosey. "Whenever something innovative comes up, they ban it. With the flop they were simply too late to ban it. It had become so popular."

Why did she start jumping this way? "It was the only way I could do it. It was really natural for me."

Last week, when she was giving some instructions to some pint-sized jumpers from the Victoria Junior Development Track Club in a workout at the UVic stadium, she was trying to encourage individualism as much as giving hints for becoming air-born. "Jump the way you feel best," she would continually say.

"If you tell everyone how to jump, nothing new will ever evolve. As in anything, there will never be progress."

Debbie's individual approach also resulted in her quitting the track scene for two years, and this was after the Olympics in Munich in 1972, where, at the age of 18, she had placed eighth.

"I was really sick of it all. I had been jumping for five years, and I was tired."

She had looked forward to the Olympics, and when it was over she was disappointed by its atmosphere, by the way athletes were treated as something more than just being persons, and "I didn't like being dictated to by sports writers."

She is preparing herself for the next Olympics but "I will know what to expect of it this time."

To her, though, the more important events are the regular international meets, not the Olympics.

After two years away from track, she started up again last year because "I found I could now enjoy it again."

When you ask her about whether she can beat the world's record of 6 feet and 4 3/4 inches, which was made by a woman before the flop emerged, or win a gold medal, she replies these things are not important to her, just "jumping as best as I can".

On the other hand, she says, "jumping is not really a big part of my life. I can easily live without it."

She likes to live a quiet life in the country, which she has been doing here by living on the outskirts of Victoria, and "there are so many things I want to learn". At UVic during the past term, she was a first-year biology student, and she wants to carry on in that discipline without any specific career aims.

Since her comeback, she has not had a coach, her main source of help being her boyfriend, Greg Ray, a pianist who comes to her workouts and gives her feedback on mistakes she might be making.



stare at the crossbar, followed by a sudden explosion of pumping arms and legs into a break-neck dash that ends with a crash of feet
ky.

(Photos by Bryan McGill)

But now she says she needs a coach again for added refinement now that she is reaching the condition she was in at the time of the 1972 Olympics.

She said that for conditioning techniques she has relied greatly on the programmes of Derek Boosey, and some of those exercises include dancing around with 170 pounds of weights held over her head, or lifting about 110 pounds with her legs.

She trains one to two hours a day, concentrating on jumping during the warm months and on conditioning during the winter months.

Unfortunately, for UVic, she won't be back next term, mainly because she will be working out during the fall in California, and then going to Simon Fraser University for its past-Christmas semester, where she said there is more emphasis on track and field.

FELLOWSHIP HONORS CLARK

Two \$5,400 fellowships have been established in honor of the late Dr. Lewis J. Clark, an internationally-known naturalist and UVic Professor of Chemistry.

The Lewis J. Clark Fellowship will be awarded annually to two students of good academic standing, one in botany and one in chemistry.

Dr. A.D. Kirk (Chairman, Chemistry) said UVic recently received a gift of \$12,000 from a donor who wishes to remain anonymous to begin a special memorial fund in honor of Dr. Clark, who died in March of 1974.

The income from the gift together with university fellowships will make up the initial financial allotments, but Dr. Kirk said that it is hoped that the memorial fund will increase over the years as

donations are made by former colleagues and members of the community.

Dr. Kirk noted that Dr. Clark was "a highly respected scholar and friend of many hundreds with whom he came in contact in his more than 30 years of teaching, largely with Victoria College and the university, but including the secondary and elementary schools in the area."

Dr. Clark gained international fame for his life-time photographic studies of nature, best illustrated in his now sold-out book *Wild Flowers of B.C.* which came out shortly before his death.

Out of a planned series of six field guides based on this book, Dr. Clark had two going to press when he died of a heart attack. John Trelawny, of UVic's Biology Department, Mrs. Clark and Gray's Publishing Ltd., of Sidney, are publishing the remaining four guides posthumously.

Contributions to the fund can be made through the University of Victoria Foundation, "Lewis J. Clark Memorial Fellowship". Those interested in further details may contact Floyd A. Fairclough, University of Victoria Foundation, 477-6911, Local 370 or 371.

BIG LEGAL MEET HERE

UVic's Faculty of Law will be host to 250 persons attending the Second National Conference on Legal Aid Services June 11 to 13.

With the conference theme being "Access to Justice", featured speakers will include Otto Lang, Minister of Justice and Attorney-General of Canada, Laurent Laplante, editor of *Le Jour*, Ellsworth Morgan, president of the National Clients Council, Washington,

D.C., and Ian Cowie, special advisor on legal aid, Department of Justice, Ottawa.

The conference is being organized by the Canadian Council on Social Development and being supported by the federal departments of Justice and the Secretary of State, the B.C. Attorney-General's Department and the Justice Development Commission of B.C.

Dean of Law Murray Fraser said that having the conference here "indicates the interest of the faculty in access to justice and legal aid."

The conference will be held in various buildings on campus, and the main dinner, on June 12 at 7:30 p.m., will have Mr. Lang speaking on "The Future of Legal Aid in Canada".

Themes of the plenary session will be "Legal Aid in Canada, 1975", "Legal Services from the Client Perspective", and "Legal Services and Social Reform". There will also be more than 20 workshops on such specialized topics as delivery of legal services to native groups, legal paraprofessionals, welfare law, housing law, group representation, community legal education and law reform.

Roland Penner, chairman of Legal Aid Manitoba, and Robert Sauve, chairman of the Quebec Legal Services Commission, are conference co-chairmen.

Most of the participants will be accommodated in campus residences.

TV PROGRAMMES

The next two programmes in a series of 10 being produced for Cable 10 will be on June 5, with Dr. Gerhardt Friedmann (Physics) commenting on an exhibition of Leonardo da Vinci working models, and on June 12, with a Biology team diving for marine animals. Programme time is 8:50 p.m.

B.O.G. APPOINTMENTS

Following are appointments and promotions approved at the last meeting of the Board of Governors.

Alfred Fischer, Associate Dean, Faculty of Arts and Science, becomes Dean of the Faculty of Arts and Science, July 1 to June 30, 1980, succeeding Professor Jean-Paul Vinay, who is retiring.

Professor Kenneth Rankin becomes chairman of the Department of Philosophy, July 1 to June 30, 1978, succeeding Professor John Woods, acting chairman.

Assistant Professor Samuel Scully becomes Acting Chairman, Classics, July 1 to June 30, 1976, replacing Professor D.A. Campbell, who will be on study leave.

Assistant Professor Graham Branton, becomes acting chairman, Chemistry, July 1 to June 30, 1976, replacing Professor A.D. Kirk, who will be on leave of absence.

Associate Professor Siri Gunasinghe becomes acting chairman, History in Art, July 1 to June 30, 1976, replacing Dr. Alan Gowans, who will be on study leave.

Assistant Professor Michael C.R. Edgell (Geography) becomes director of the Pacific Studies Programme, effective April 16, 1975 to June 30, 1976, replacing Associate Professor William Alkire (Anthropology), who has resigned.

James Arthurs (Linguistics) becomes Co-Ordinator of the English Language Programme for 1975, succeeding Assistant Professor H.J. Warkentyne, who will be on study leave.

Richard Pearce (Education) becomes co-ordinator of Professional Programmes (Undergraduate), effective May 15.

Promoted to full professorship, effective July 1, are C.G. Galloway (Education), Siri Gunasinghe (History in Art), Dr. R.B. Hagedorn (Sociology), Donald Harvey (Visual Arts), Arthur Kratzmann

(Education), J.N. Owens (Biology), Peter Smith (Classics) and K.G. Pedersen (Education).

Promoted to Associate Professor, effective July 1, are George Beer (Physics), Graham Branton (Chemistry), Irvin Burbank (Education), Gerald Carr (Education), Brian Dippie (History), Byron Ehle (Mathematics), James Elliott (Physics), Martin Hocking (Chemistry), David Leeming (Mathematics), Charles Miers (Mathematics), Reginald Mitchell (Chemistry), John Money (History), Mark Sproule-Jones (Political Science), David A.T. Stafford (History), Stanton Tuller (Geography), James Vance (Education), Gerald Walter (Economics), Stephen Webb (Sociology), S. Anthony Welch (History in Art), and Paul West (Chemistry).

Promoted to Assistant Professor, effective July 1, is Ruth S. Beer (Visual Arts).

Study leaves: Laurence Devlin, director, Division of Continuing Education, January 1, 1976 to June 30, 1976; and Karel Hartman (Chemistry), October 1, 1975 to May 31, 1976.

E. Patricia Wainman-Wood (Theatre) and N. Bindon Kinghorn (Theatre) have been reclassified as senior academic assistants.

Resignations accepted are Brian Colgate, programmer analyst in Systems Services, and John Bryant, senior academic assistant in Geography.

GERMAN TOUR

Six students from the Department of Germanic Languages and Literature last week departed to the Federal Republic of Germany to take part in a summer of work and study programmes there.

Dr. Michael Hadley, department chairman, said the six are part of a group chosen from university German departments across Canada for the German exchange programme.

Dr. Hadley, who is also co-director of

the Canadian German Academic Exchange Association, said that upon their arrival the students were to be given a tour of southern or northern Germany, depending upon the area in which they will be working. Two months later they will be given a tour to Berlin.

The students are William Caljouw, who has been granted a scholarship for intensive language training at the Goethe Institute in Schwäbisch-Hall, and Robert Sinclair, Michèle Waters, Annemarie Hartmann, Marion Tighe and Darlene Kilpatrick, who will be working in such locations as Berchtesgaden and Constance.

The programme is subsidized by the republic's government and sponsored by the German labour office.

CHEMISTRY SPEAKER

Dr. David R. Taylor, the University of Alberta, will speak on "Studies on Limonoids and Proto-limonoids", on June 5 at 11 a.m. in Elliott 162.

GRADUATE EXAM

Andrew Feher, a Ph.D. candidate in Chemistry, will be examined by the Faculty of Graduate Studies on his dissertation, "An Investigation of Monolayer Spreading Speeds at the Air-Water Interface", on June 2 at 3:30 p.m., Elliott 402.



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